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TITLE : MASTER FOR LASER-SENSITIVE LITHOGRAPHIC PLATE

ABSTRACT : PROBLEM TO BE SOLVED: To improve image reproducibility by forming a heat-sensitive layer sensitive to a laser beam provided on a base with a hydrophilic surface, of a polymer containing one type of functional group selected from among a hydroxylic group, an amino group and others, a metal chelate compound and a solvent-soluble binder polymer as principal components.

SOLUTION: The master for the lithographic plate which describes an image using a small output laser based on digitized image information has a heat-sensitive layer sensitive to a laser beam formed on a base with a hydrophilic surface. In this case, the heat-sensitive layer is formed of a polymer containing one type of functional group selected from among a carboxyl group, an amino group, a mercapto group, an ethylenic unsaturated group and a metal chelate compound and a solvent-soluble binder polymer as principal components. In this heat-sensitive layer, heat is generated by absorbing a laser beam energy when irradiated with the laser beam and a crosslinking non-solubilization reaction occurs due to an action between the functional group and the metal chelate compound contained in a resin to form a fast image.

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